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Statistical Mechanics Of Learning

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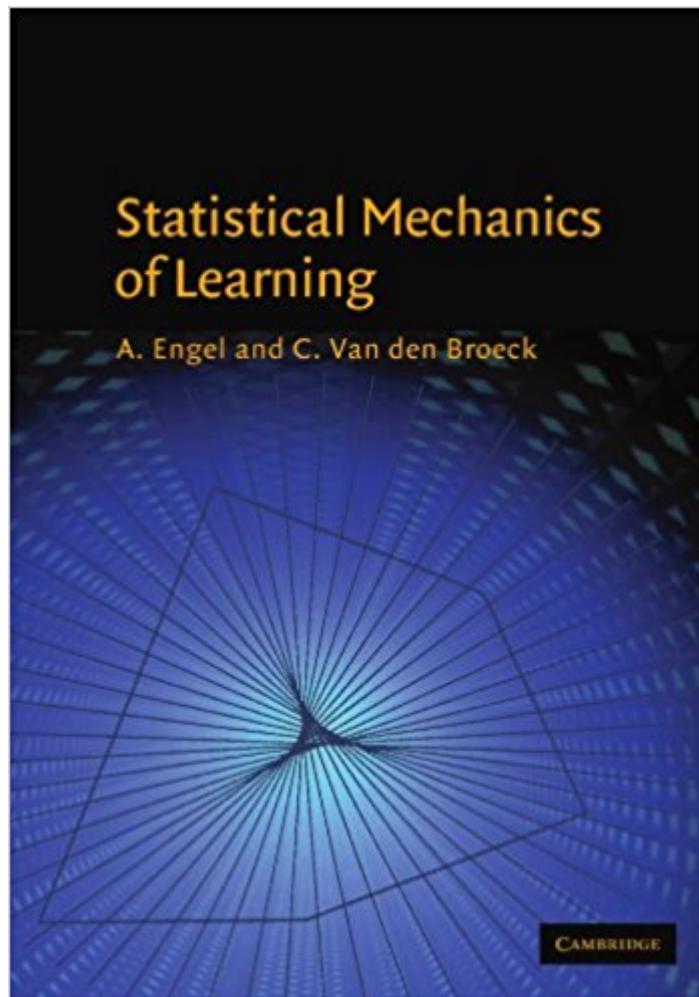
Synopsis

The effort to build machines that are able to learn and undertake tasks such as datamining, image processing and pattern recognition has led to the development of artificial neural networks in which learning from examples may be described and understood. The contribution to this subject made over the past decade by researchers applying the techniques of statistical mechanics is the subject of this book. The authors provide a coherent account of various important concepts and techniques that are currently only found scattered in papers, supplement this with background material in mathematics and physics, and include many examples and exercises.

Book Information

Paperback: 344 pages

Publisher: Cambridge University Press; 1 edition (April 2, 2001)

Language: English

ISBN-10: 0521774799

ISBN-13: 978-0521774796

Product Dimensions: 6.8 x 0.7 x 9.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

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